

NLTUA OPERATIONS REPORT – September 2015

TO: Chris Holton, NLTUA

FROM: Marcus Evans, CH2M HILL OMI

DATE: October 14, 2015

COPY: Kevin Dahl, CH2M HILL OMI
Liz Hart, CH2M HILL OMI

This report describes our activities during the month of September 2015. If you require additional information that would make these monthly reports more useful to you, please let us know. Permit compliance report data is being submitted to the State of Michigan electronically. The discharge monitoring report can be viewed at <https://miwaters.deq.state.mi.us/miwaters>

Treatment Plant

Total Influent Flow Daily Average = 53,899 GPD Last Month = 70,344 Last Year = 54,658

Total Electrical Usage Monthly = 19,345 Kw Hr. Last Month = 22,293 Last Year = 24,090

We finally received the new discharge permit from the DEQ and I have attached a copy with this report. New to the permit is the installation within the next year of an effluent flow meter that will totalize the flow that is discharged to the rapid infiltration beds. I have contacted Fleis and Vandenbrink engineering and Gosling Czubek for design and installation quotes for the flow meter. Explanation found in section 5.A. Also new to the permit is annual soil testing for Phosphorus. Explanation found in section 1.C. I will be making some contacts to get this sampling completed over the next year.

On Wednesday 9/2/15, we resampled Monitoring Well 9 due to some historical irregularities that we noticed once we received our analytical lab data. At the time of our initial sampling on 8/4/15, the well cap and lock had been removed prior to our arrival. The sample we collected that day was blackish in color and had a very high solids concentration. On 9/2/15, we arrived to find that the well cap and lock were still in place and collected our MW 9 sample in the exact manner that we collected the initial 8/4/15 sample. The sample is significantly clearer this time and we expect our lab results will better reflect our historical trends.

On Thursday 9/10/15, arrived at the plant to find the upper sand filter reject pipe was plugged. Used a drain king to unplug the pipe. The system is back to proper operating condition.

On Tuesday 9/8/15, we were called out to the WWTP for a recycle pump fault. Shortly after we received this call we were called out to the 7th Street Lift Station for a "High Well" and a "Power Fail" condition. Upon arrival discovered the recycle pump was off due to a probable power blip from a tree falling on the power lines. This was also the cause of the power outage and subsequent high well at the 7th street lift station. First, we restarted the recycle pump to get the plant back to proper operating condition. We then retrieved the portable generator from the NLTUA DPW garage and towed it to the 7th street lift station. We then operated the lift station off of generator power for the next few hours until line voltage was restored. Later that evening we received another recycle pump fault due to another probable power blip caused by the restorative work being done by consumers to the power grid.

Lift Stations / Collection system (Including Residential Grinder Pump Stations)

On Tuesday 9/1/15, we were called out to 8848 Dawn Haven Rd. Upon arrival, we discovered the High Water Light and Pump Overload lights on. We reset overload relay on motor starter. The pump ran in Auto and the amp draw was good. Opened chamber to find that it was filled with cleaning wipes, debris and grease. Washed down and ran pump though 3 fill cycles after removing material. System operating properly upon departure.

On Friday 9/4/15, we were called to North Shore Drive. Upon arrival, we found a large hole in the homeowners driveway caused by an abandoned collapsed septic tank.

On the Horizon

- Return Blower #2 to service and inspect after significant runtime.
- Have Blower #1 rebuilt hopefully onsite.
- Sewer inspections and flushing
- Replace light on basin.
- Northport Point Lift station alarm dialer replacement.
- Effluent Flow meter design, spec and installation.
- Settling basin cleaning
- Replace battery for SolarBee mixer on the solids basin
- Weed control on the Rapid Infiltration Beds in the spring

Budget Items

September-15

Repairs Spending Treatment Plant & Collection System	\$406.13
Repairs Spending Treatment Plant & Collection System Year to Date	\$19,417.73
Repairs Spending Residential Grinder Pumps	\$332.32
Repairs Spending Residential Grinder Pumps Year to Date	\$9,474.26
Repair Hours Residential Grinder Pumps	8.6
Repair Hours Residential Grinder Pumps Year to Date	190.1
Repair Hours Treatment Plant	0
Repair Hours Treatment Plant Year to Date	63
Repair Hours Collection System (lift stations/sewer)	2.4
Repair Hours Collection System (lift stations/sewer) Year to Date	32.4

Total Repair Hours Year to Date	285.5
Total Repair Spending Year to Date	\$28,891.99

Total Repair Hours Year to Date in 2014	397.5
Total Repair Spending Year to Date in 2014	\$26,402.72

These budget numbers are an estimate.

If you have any questions or concerns please feel free to contact me.

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